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SOURCE Newspapers as indicated.

USE OF TUNNELING SHIELD IN EXCAVATION OF BUDAPEST SUBWAY

On 26 May the first domestically produced, Soviet-type tunneling shield began excavating the new Budapest subway line which will extend from Rakocsi ut to the site of the new stadium, via Baross ter. By 1900 hours that evening, the shield had dug a 2-meter-long tunnel. (1)

Made in Kuvag's bridge shop, the huge machine had to be taken underground sectionally and reassembled in the Rakoczi ut subway shaft.(2)

The tunneling shield weighs 130 tons. Its head resembles a steel barrel, the dimensions of which exceed one story [sic] in diameter and length. Attached to the outer rim of the head are 22 powerful hydraulic presses which propel the shield forward by pushing against sections of cast-iron tubing imbedded in the shaft.

The front of the shield head consists of three rows of cutters mounted on a hemisphere. When it is in motion, the hemisphere oscillates slowly, causing the cutters to dig out one or 2 cubic meters of earth. As the shield advances, this earth collects in it and is carried back by a built-in conveyor belt which dumps it into trucks.

A second tunneling shield is expected to begin excavating a parallel course within a few days. (3)

SOURCES

1. Hopskava, 27 May 52
2. Szabad Nep, 25 May 52
3. Szabad Neu, 21 May 52

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